

Figure 1: Functional Block Diagram of the PCS layer in 10GBASE-R Ethernet PHY.

Data Codewords have "01" sync preamble



Mixed Data/Control frames are identified with a "10" sync preamble. Both the coded 56-bit payload and TYPE field are scrambled

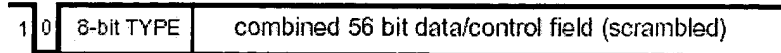


Figure 2: 64b/66b code words.

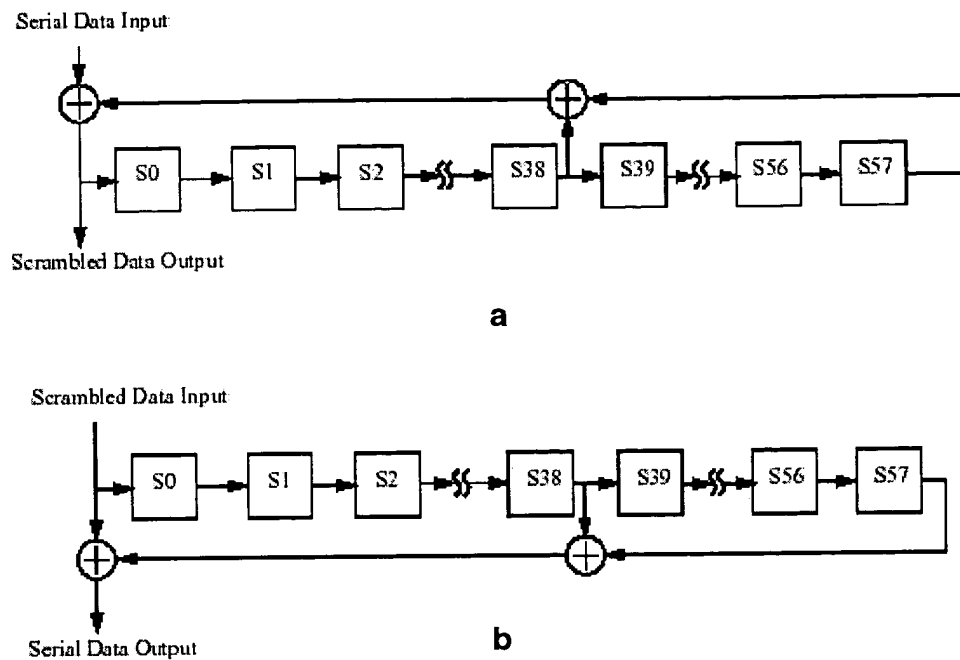


Figure 3: The self-synchronous scrambler and descrambler used in 64b/66b encoding.

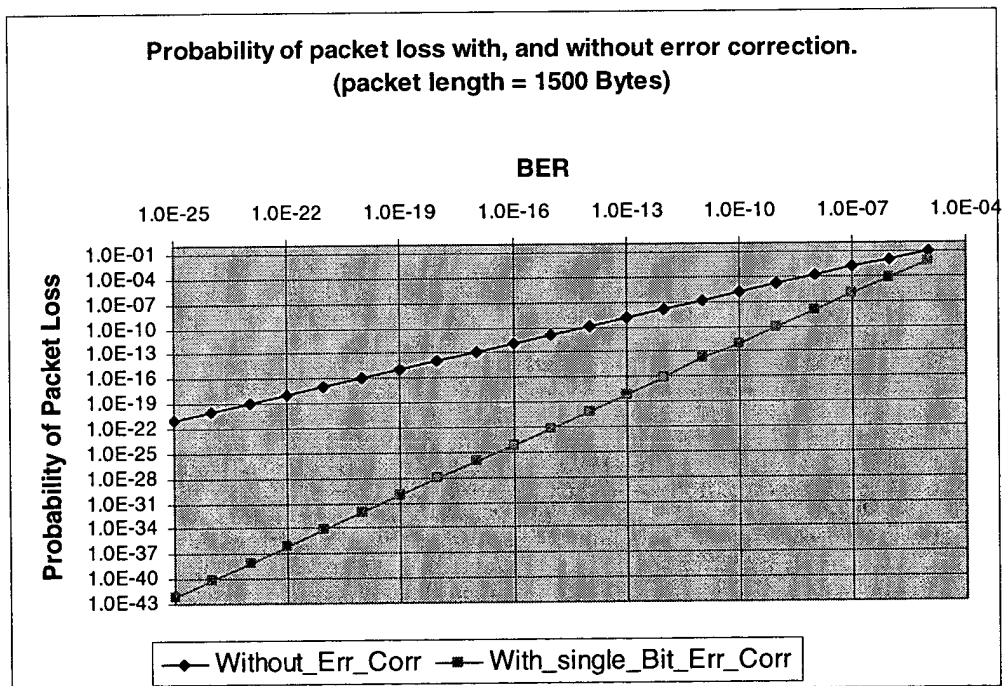


Figure 4: Probability of packet loss with, and without single-bit error correction.

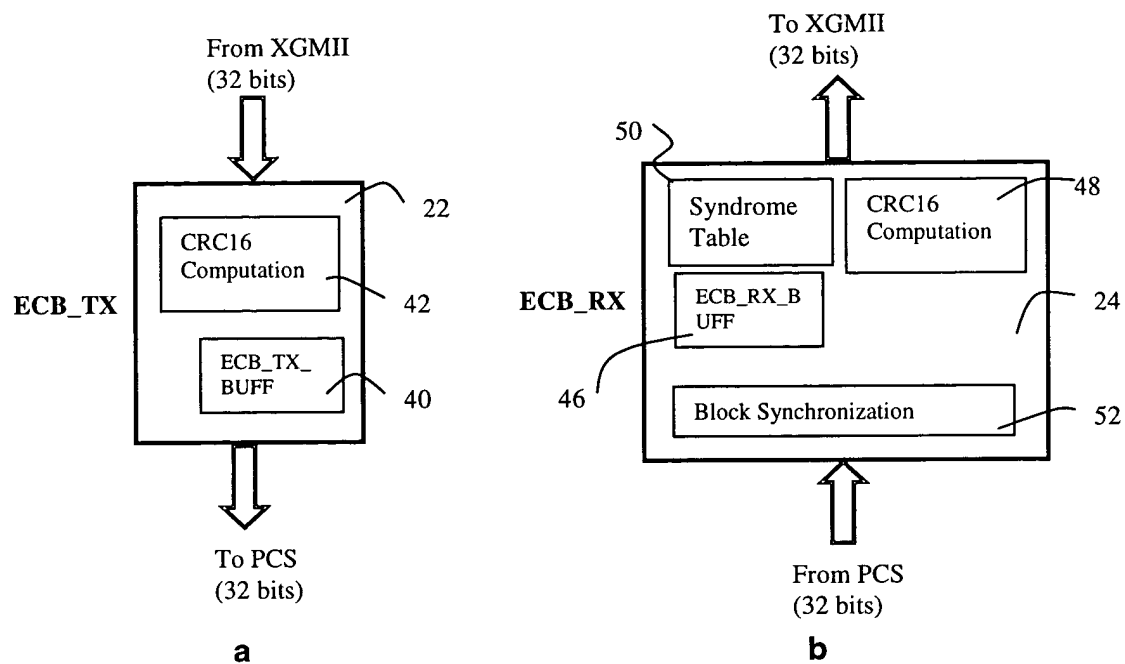


Figure 5: Functional block diagram of the Error Control Blocks (ECB).

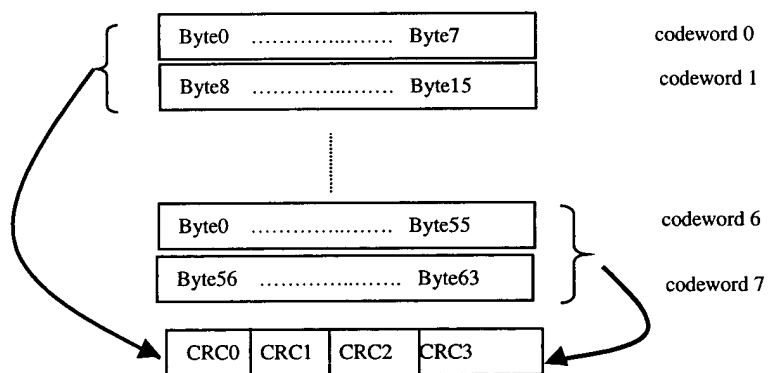


Figure 6: The buffer format in the ECB_RX and ECB_TX modules.

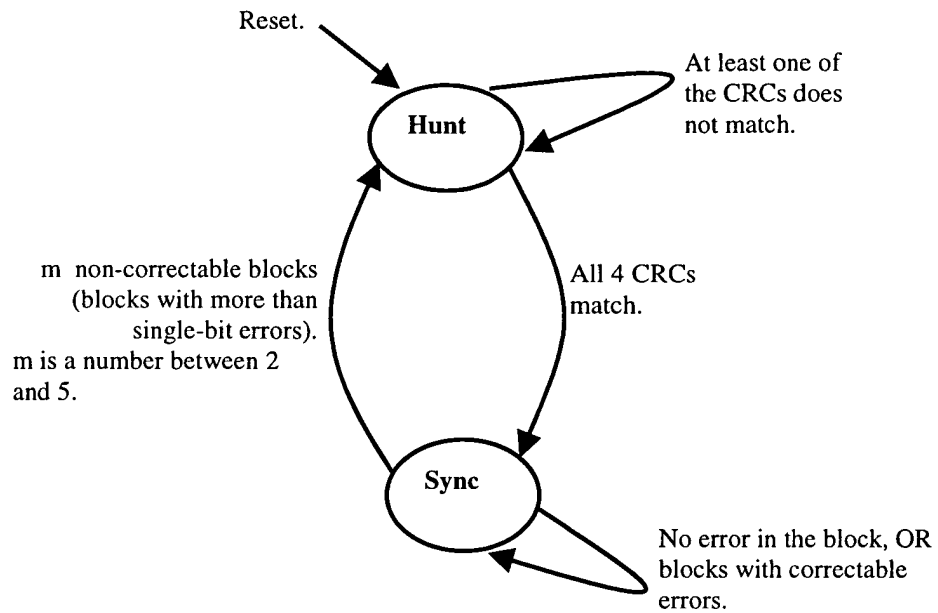


Figure 7: The state diagram of the block synchronization in the ECB_RX module.